


FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional) 89160.0010	Application Number 10/045,837
	Applicant GURVICH et al.	
	Filing Date January 11, 2002	Group Art Unit 2817

U.S. PATENT DOCUMENTS						
EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	3,516,024	6/2/1970	J. Lange	333	10	
DT	4,216,446	8/5/1980	H. Iwer	333	112	
DT	4,288,761	9/8/1981	S. Hopfer	333	116	
DT	4,636,754	1/13/1987	Presser et al.	333	116	
DT	4,723,307	2/2/1988	Clark et al.	455	103	
DT	5,159,298	10/27/1992	M. Dydyk	333	112	


FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
						Abstract	

EXAMINER 	DATE CONSIDERED 5/6/04
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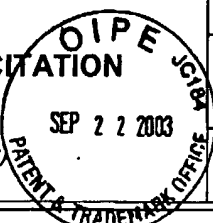
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DT	Bryant, et al., "Parameters of Microstrip Transmission Lines and of Coupled Pairs of Microstrip Lines", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-16, No. 12, December 1968
DT	Herzog, H.J., "Microstrip Couplers with Improved Directivity", <i>Electronics Letters</i> , Vol. 14, No. 3, February 2, 1978
DT	Schaller, G., "Directivity Improvement of Microstrip N4-Directional Couplers", <i>AEU</i> , Vol. 26, No. 11, 1972, pages 508-509
DT	Rehnmark, S., "High Directivity CTL-Couplers and a New Technique for the Measurement of CTL-Coupler Parameters", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-25, No. 12, December 1977, pages 1116-1121
DT	Podell, A., "A High Directivity Microstrip Coupler Technique", <i>International Microwave Symposium Digest</i> , 1970 G-MTT, pages 33-37
DT	Sheleg, B. et al., "Broad-Band Directional Couplers Using Microstrip with Dielectric Overlays", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-22, No. 12, December 1974, pages 1216-1220
DT	Alexopoulos, N. et al., "Characteristics of Single and Coupled Microstrips on Anisotropic Substrates", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-26, No. 6, June 1978, pages 387-393
DT	Aikawa, M., "Microstrip Line Directional Coupler with Tight Coupling and High Directivity", <i>The Transactions of the IECE of Japan</i> , Vol. E 60, No. 4, Abstracts, pages 206-207, April 1977
DT	Lange, J., "Interdigitated Stripline Quadrature Hybrid", <i>IEEE Transactions on Microwave Theory and Techniques</i> , December 1969, pages 1150-1151
DT	Presser, A., "Interdigitated Microstrip Coupler Design", <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. MTT-26, No. 10, October 1978, pages 801-805
DT	Kumar, et al., "Monolithic GaAs Interdigitated 90 Degree Hybrids With 50- and 25- OHM Impedances", 1982 IEEE Microwaves & Millimeter Wave Circuits Symposium, Dallas, TX 1982
DT	Lange, J., "Interdigitated Stripline Quadrature Hybrid", <i>G-MTT Int., Microwave Symposium Digest</i> , pages 10-13, May 1969

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DT	Lane, J., "Interdigitated Stripline Quadrature Hybrid", <i>IEEE Transactions on Microwave Theory and Techniques</i> , December 1969, pages 1150-1151		
DT	Waugh, R. et al., "Unfolding the Lange Coupler", <i>IEEE Transactions on Microwave Theory and Techniques</i> , November 1972, MTT-20, pages 777-779		



EXAMINER <i>Dean G. Miller</i>	DATE CONSIDERED 5/6/04
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